

Powersolve Electronics Ltd

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25W Desktop Type Switching Power Supplies For I.T.E. ENERGY STAR COMPLIANT

Description:

The PSE25 series of AC/AD switching mode power supplies provide 25Watts of continuous output power. All supplies are UL94V-0 compliant, include IEC-320-C14 input for worldwide applications, All models meet FCC-Part-15 class B and CISPR-22 class B emission limits and are designed to comply with UL, c-UL, TUV and CE requirements. All units are 100% burned in and tested.





Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- CEC and Energy Star Compliant
- Approved as a limited power source
- IEC-320-C14 Input Inlet
- Output Voltage Available from 5VDC through 48VDC
- Optional Output Connectors (See Appendix)
- Single Output
- Splash Proof
- One Year Warranty

LEC	CTRICAL CHARACTERIS	TICS:				
Sym.	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vin	Input Voltage	-	90 - 260		VAC	
Fin	Input Frequency	-	47	-	63	Hz
Wo	Output Power Range	Vin = 90 to 264 VAC	0	-	80	W
Vo	Output Voltage Range	-	See Rating Chart		V	
Io	Output Current Range	-	See Rating Chart		A	
Iil	Input Current (Low Line)	lo=Full Load, Vin =115VAC	-	-	0.4	Α
Iih	Input Current (High Line)	lo=Full Load, Vin=230VAC	-	-	0.25	A
Irl	Low Line Inrush Current	Io=Full Load, 25°c, Cool Start, Vin=115VAC	ool Start,		15	А
Irh	High Line Inrush Current	lo=Full Load, 25°c, Cool Start, Vin=230VAC		26	30	А
Eff	Efficiency	lo=Full Load, Vin=230VAC	75	85	95	%
REG-i	Line Regulation	lo=Full Load	-	0.5	1	%
REG-0	Load Regulation	Vin=230VAC	-	3	5	%
OVP	Over Voltage Protection	-	112	-	132	%
OCP	Over Current Protection		110	-	150	%
Ttr	Transient Response	Io=Full Load to Half Load, Vin=100VAC	-	-	4	mS
hold	Hold-Up Time	Io=Full Load, Vin=100VAC	16	-	-	mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	S
Vrn	-	Full Load, Vin=240VAC	-	0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full Load, Vin=240VAC	-	0.5	0.75	mA
Tc	Temperature Coefficient	All Output	-0.04	-	0.04	%/°C

Environmental:						
Sym	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Toper	Operating Temperature		0	-	70	°C
Tstg	Storage Temperature		- 40	-	85	°C
Hr	Relative Humidity		5	-	95	%
Pd Derated From 100% at + 50°C Linearly to 50% at 70°C						

Safety Specifications							
Sym	Parameter	Test Conditions	Min	Тур	Max	Unit	
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242	-	-	VDC	
Vpg	Dielectric Withstanding Voltage for Primary to ground	Primary to ground	2121	-	-	VDC	
Ri	Isolation Resistance	Test Voltage = 500VDC	50	-	-	M ohm	
Cispr	EMI requirements for CISPR-22	Vin=220VAC	В	-	-	CLASS	

OUTPUT VOLTAGE AND CURRENT OUTPUT (Single Output):							
Model Number	Output Voltage	Output Current	Total regulation		M	aximum Output Power	
PSE25-105A	5-6VDC	3.00-2.75A	5	5%		16.5W	
PSE25-209A	8-11VDC	2.75-2.00A	5%			22W	
PSE25-312A	11-13VDC	2.27-1.92A	5	5%		25W	
PSE25-624A	21-27VDC	1.19-0.92A	5	5%		25W	
PSE25-848A	40-48VDC	0.62-0.52A	5	5%		25W	
Fcc EMI red	quirements for CISPR-15	Vin=110VAC		В		CLASS	

Mechanical Specifications:

Note:

- Dimensions are shown in mm.
 Weight: 170gs approx.
 Optional output connector:
 See page Appendix.

